

Product Name  
DR-300/DR-8000 TonerIssue Date: 07 Feb., 2003  
MSDS No.: YL4DE002**1. Identification of Substance / Preparation and of the Company / Undertaking****1.1 Product details**1.1.1 Product Name(s) : DR-300 Toner and DR-8000 Toner  
1.1.2 Product Code : Toner N2 and N3

These products are non-magnetic single component toner in a drum unit for Brother Industries Ltd. page printers and fax receivers.

**1.2 Company details**1.2.1 Manufacturer : Brother Industries, Ltd.  
Information & Document Company  
1-1-1, Kawagishi, Mizuho-ku,  
Nagoya 467-8562, Japan  
Telephone (for information): +81-52-824-25451.2.2 Supplier : Brother International Europe Ltd.  
Brother house, 1 Tame Street, Guide Bridge,  
Audenshaw, Manchester M34 5JE, UK  
Telephone (for information): +44-161-330-6531

We do not provide 24 hour cover for information contact. Please telephone to the above office appropriate to you during our business hours.

**2. Composition / Information on Ingredients****2.1 Chemical characterization**2.1.1 CAS number : –  
2.1.2 Identification No. : –**2.2 Chemical characterization (preparation)**2.2.1 Description : Mixture of Polyester resin, Carbon Black and Additives  
2.2.2 CAS number :  
2.2.3 Composition : Polyester resin : 80-85%  
CAS No. 117581-13-2  
: Styrene-Acrylate resin : 5-10%  
CAS No. 133350-42-2  
: Carbon Black (IARC Group 2B) : 3-4%  
CAS No. 1333-86-4  
: Dyes : 2-3%  
CAS No. 8005-02-5  
: Wax : 1-2%  
CAS No. 9010-79-1**3. Hazardous Identification**

3.1 Special hazard information (R-phrase) : –

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#### **4. First Aid Measures**

- 4.1 General Information : Inhalation; Remove to fresh air if effects occur.  
Consult local medical personnel.  
Eyes; In case of contact, immediately flush eyes with plenty of water.

#### **5. Fire-fighting Measures**

- 5.1 Suitable extinction medium : Water spray, Foam, Dry chemicals and CO<sub>2</sub>

#### **6. Accidental Release Measures**

- 6.1 Personal precautionary measure : See first aid measures.  
6.2 Environmental protection measure : Waste materials to be disposed of according to regulations.  
6.3 Clean up measure : Sweep up or clean up with a vacuum cleaner.  
6.4 Additional information : –

#### **7. Handling and Storage**

##### 7.1 Handling

- 7.1.1 Safety data : –  
7.1.2 Fire and explosion hazard data : These materials have no unusual fire or explosion hazard.

##### 7.2 Storage

- 7.2.1 Storage details : No special storage requirements for safety reasons.  
7.2.2 Storage classification : –

#### **8. Exposure Controls / Personal Protection**

##### 8.1 Personal safety

No personal protective device is required under the normal use.  
In case that some accident causes considerable spill, the following measures are suggested.

- 8.1.1 Breathing protection : Use a NIOSH/MSHA approved dust/mist respirator  
8.1.2 Hand protection : Use suitable protective gloves.  
8.1.3 Eye protection : Use protective goggles.  
8.1.4 Body protection : Use protective suits.

#### **9. Physical - and Chemical Properties**

##### 9.1 Appearance

- 9.1.1 Physical state : Solid (Powder)  
9.1.2 Color : Black  
9.1.3 Odor : None

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### 9.2 Relevant safety data

Property	Unit	Method of analysis
9.2.1 Change of state	—	
9.2.1.1 Melting point / area	Not applicable	
9.2.1.2 Boiling point / area	Not applicable	
9.2.2 Flash point	—	
9.2.3 Specific gravity	1.2	
9.2.4 Solubility	Insoluble in water	
9.2.5 pH-value	—	
9.2.6 Viscosity	—	
9.2.7 Solvent content	0%	

### 9.3 Additional information

### 10. Stability and Reactivity

10.1 Storage conditions to avoid	: —
10.2 Products to avoid	: —
10.3 Dangerous decomposition products	: Phenol derivatives, Carbon monoxide when heated at high temperature (>300°C)
10.4 Additional information	: —

### 11. Toxicological Information

11.1 Classification of LD50 value	: >2500mg/kg (Data on similar product)
11.2 Primary irritation	: non-irritant
11.3 Sensitization	: not sensitive
11.4 Additional information	: Ames test; Negative (Salmonella typhimurium, Escherichia coli; Data on similar product)

### 12. Ecological Information

12.1 Details of breakdown	
12.1.1 Method of decomposition	: —
12.1.2 Analytical method	: —
12.1.3 Degree of decomposition	: —
12.1.4 Text book value	: —
12.2 Additional information	
	<u>date</u> <u>unit</u> <u>comment</u>
12.2.1 COD-value	—
12.2.2 BOD5-value	—

### 13. Disposal

13.1 Recommended Method of disposal	: If recycling not possible, eliminate in accordance with locally valid waste-disposal regulation.
Disposal code number	: —

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**14. Transport**

- 14.1 General comment : It is not a dangerous product according to transport regulations

**15. Regulatory Information**

## 15.1 In accordance with EC regulations

- 15.1.1 Classification, packaging and labeling description : —  
15.1.2 R-phrases : —  
15.1.3 S-phrases : —

## 15.2 In accordance with national regulations

- 15.2.1 Water hazard class : 2  
15.2.2 Additional information : —

**16. Other Information**

## 16.1 Change of the material safety data sheet

- 16.1.1 Statement of reason for change : The same toner is used for both DR-8000 and DR-300 drum units, and so DR-300 was added to this MSDS. Additional product code N3 is included in it, however, there is no difference from the current code N2 from a technical point of view.
- 16.1.2 Date of change : 7 Feb., 2003

## 16.2 Others

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